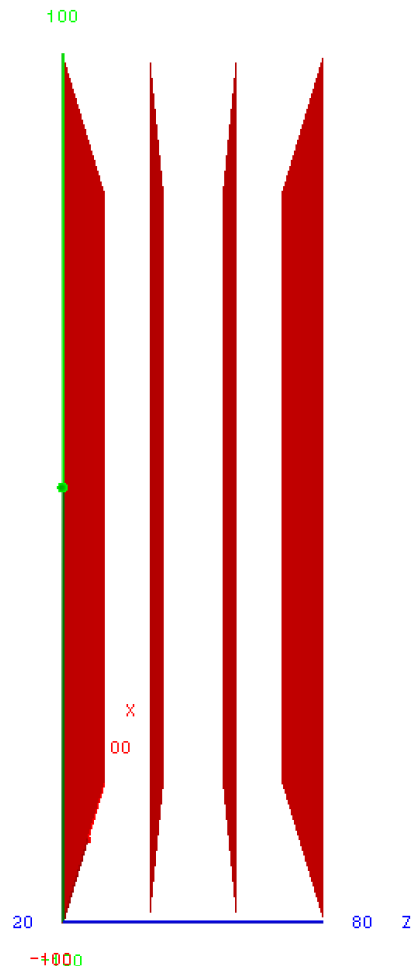
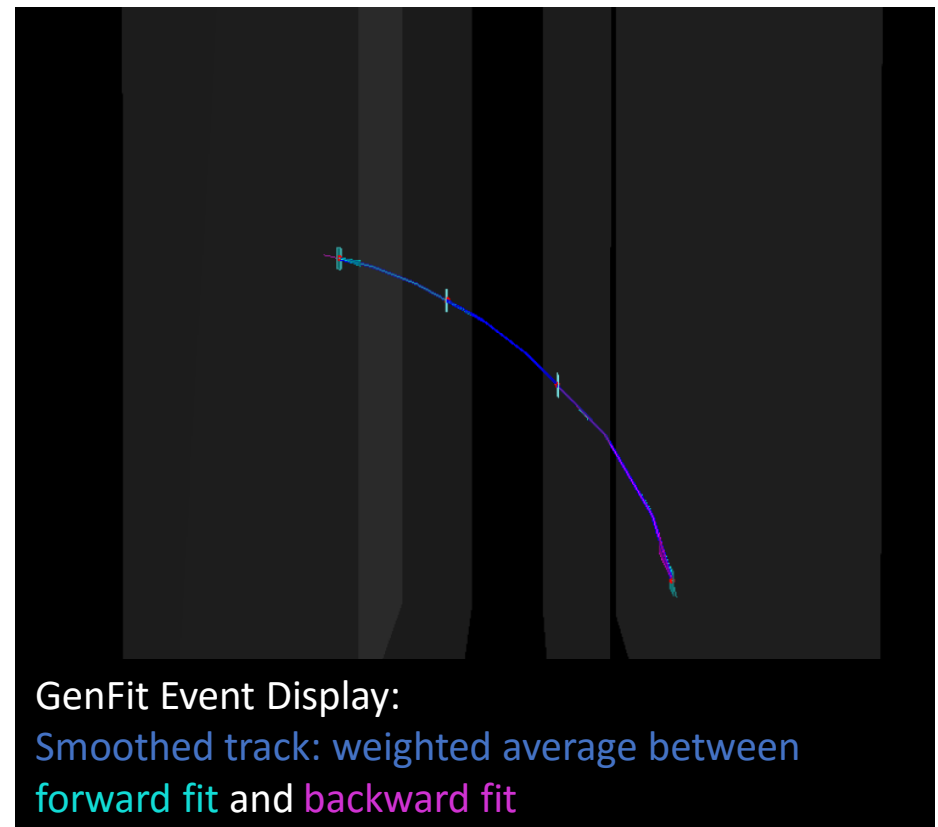


- Discussed with Jin:
 - The fsPHENIX G4 geometry could be ported to TGeo.
 - RKTrackRep is already fully functional.
 - So we could try to use it for now to speed things up
- Studied the structures/interfaces of GenFit. And set up a standalone test.

Detector:
4 tesla, x-direction
1 micro silicon layers



KalmanFilter result event display



Results:

Input:

pos(0,0,0) cm

mom(0,0,1) GeV

Cov: 0.1^2

```
DEBUG: extrapolateToPoint(0,0,0)
genfit::MeasuredStateOnPlane my address 0x7ffec1f5be10 my plane's address 0x3e76de0; use count: 2
state vector:
Vector (5) is as follows
```

	1
0	1
1	0
2	0
3	0
4	0

covariance matrix:
5x5 matrix is as follows

	0	1	2	3	4
0	0.01	0	0	0	0
1	0	0.01	0	0	0
2	0	0	0.01	0	0
3	0	0	0	0.01	0
4	0	0	0	0	0.01

```
defined in plane DetPlane: O(0, 0, 0) u(-1, 0, 0) v(0, -1, 0) n(0, 0, 1)
3D position: TVector3 A 3D physics vector (x,y,z)=(0.000000,0.000000,0.000000) (rho,theta,phi)=(0.000000,0.000000,0.000000)
3D momentum: TVector3 A 3D physics vector (x,y,z)=(0.000000,0.000000,1.000000) (rho,theta,phi)=(1.000000,0.000000,0.000000)
```